**What is *HTML*?**

HTML is the standard markup language for creating Web pages.

* HTML stands for **H**yper **T**ext **M**arkup **L**anguage
* HTML describes the structure of Web pages using markup
* HTML elements are the building blocks of HTML pages
* HTML elements are represented by tags
* HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
* Browsers do not display the HTML tags, but use them to render the content of the page

**A Simple HTML Document**

**Example**

<!DOCTYPE html>  
<html>  
<head>  
 <title>Page Title</title>  
</head>  
<body>  
 <h1>My First Heading</h1>  
 <p>My first paragraph.</p>  
</body>  
</html>

**LAB1**

1. **Type the following and save and view**

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>Hello world</h1>

<p>My first paragraph.</p>

</body>

</html>

**Lab Explained**

* The **<!DOCTYPE html>** declaration defines this document to be HTML5
* The **<html>** element is the root element of an HTML page
* The **<head>** element contains meta information about the document
* The **<title>** element specifies a title for the document
* The **<body>** element contains the visible page content
* The **<h1>**element defines a large heading. Headings go from 1 to 6.
* The **<p>**element defines a paragraph

**HTML Tags**

**There are four major tags for all web pages**

1. **<html> - Tells the browser that an HTML document is to follow**
2. **<head> - Open up the heading that allows you to insert a title or styles for CSS.**
3. **<title> - Puts a title at the top of the screen not part of the main webpage.**
4. **<body> - This is where the tags will go to design your webpage.**

HTML tags are element names surrounded by angle brackets:

<tagname>content goes here...</tagname>

* HTML tags normally come **in pairs** like <p> and </p>
* The first tag in a pair is the **start tag (open tag),** the second tag is the **end tag (closed tag)**
* The end tag is written like the start tag, but with a **forward slash** inserted before the tag name

**Tip:** The start tag is also called the **opening tag <command>**, and the end tag the **closing tag </command>**.

**Web Browsers**

The purpose of a web browser (Chrome, IE, Firefox, and Safari) is to read HTML documents and display them.

The browser does not display the HTML tags, but uses them to determine how to display the document:

**HTML Page Structure**

Below is a visualization of an HTML page structure:

**LAB 2**

1. **Type the following and Save as Lab2.html**

<!DOCTYPE html>

<html>

<head>

<title>Page title</title>

</head>

<body>

<h1>Hello World</h1>

<p>This is my first web page.</p>

<p>This is another paragraph.</p>

</body>

</html>

1. **View your web page**

**Note:** Only the content inside the <body> section (the white area above) is displayed in a browser.

**The <!DOCTYPE> Declaration**

* The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.
* It must only appear once, at the top of the page (before any HTML tags).
* The <!DOCTYPE> declaration is not case sensitive.
* The <!DOCTYPE> declaration for HTML is: <!DOCTYPE html>

**HTML Versions**

Since the early days of the web, there have been many versions of HTML:

|  |  |
| --- | --- |
| **Version** | **Year** |
| HTML | 1991 |
| HTML 2.0 | 1995 |
| HTML 3.2 | 1997 |
| HTML 4.01 | 1999 |
| XHTML | 2000 |
| HTML5 | 2014 |

**Questions:**

1. What are the 4 major tags in an HTML document?
2. Between what two tags does most of the web page coding occurs?
3. What is the purpose of <!DOCTYPE html>
4. Are certain tags common among the different versions of html?
5. Do all tags have a close tag?